1. Grade 3 Multiple Choice Item (Computation)

Solve the problem below.
48 + 23 =
A. 70
B. 71
C. 61
D. 60
2. Grade 3 Multiple Choice Item (Number Sense)
Round the number below to the nearest hundred.
873
A. 800
B. 870
C. 900
D. 860
3. Grade 3 Constructed Response Item (Computation/Problem Solving
Nick has 5 bags, each with 7 stickers. Mary has 10 more stickers than Nick.
How many stickers do Nick and Mary have in all?
Show All Work

Answer____stickers

4. Grade 4 Extended Response Item (Measurement/Problem Solving)

The diagram below shows the three floors Elaine will mop for her summer job.

2 yards	A 8 yards	3 yards	B 5 yards	4 yards	C 7 yards	
What is th		in square y	ards, that E	laine will mop i	if she mops	each
Show All	Work					
Answer _			_ square y	ards		
		•		At the end of the twice than mo		
Use words	s, numbers, o	or symbols t	to explain w	hy Elaine is N	OT correct.	Be sure
	e the areas to	•	•	•		

5. Grade 4 Extended Response Item (Measurement/Problem Solving)

Dean is painting a wall that is 16 feet long and 9 feet high. One small can of paint will cover an area of 50 square feet.

How many cans of paint will Dean need to paint the wall?

Show All Work

Answercans
Dean needs to paint a 2 nd wall that measures 25 feet long and 5 feet high. He decides to buy 5 small cans of paint.
Use words, numbers, or symbols to verify if Dean has purchased enough paint to completely paint BOTH walls.

6. Grade 4 Constructed Response Item (Number Sense/Problem Solving)

Three friends were comparing the number of crackers they ate from their snack bags. The numbers are listed below.

$$1\frac{3}{4}$$
 $\frac{7}{10}$ 0.25

What is the TOTAL number of crackers the three friends ate in decimal form?

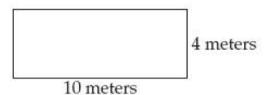
Show All Work

Answer	crackers
What is the number	as a fraction?

Answer crackers

7. Grade 4 Multiple Choice Item (Measurement)

Study the rectangle below.

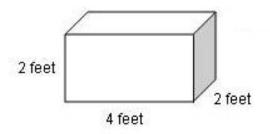


What is the perimeter, in meters, of the rectangle?

- A. 14 meters
- B. 18 meters
- C. 28 meters
- D. 40 meters

8. Grade 5 Multiple Choice Item (Measurement)

Mike has a fish tank shaped like a rectangular prism. A diagram of the tank is shown below.



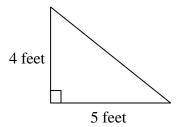
Volume of rectangular prism = lwh = length x width x height

What is the volume, in cubic feet, of the fish tank?

- A. 6 cubic feet
- B. 8 cubic feet
- C. 10 cubic feet
- D. 16 cubic feet

9. Grade 5 Extended Response Item (Measurement/Problem Solving)

Joan needs to paint the cardboard triangle shown in the diagram below for a school project.



Area of triangle = $\frac{1}{2}$ bh = $\frac{1}{2}$ x base x height

Joan has a bottle of paint that covers an area of 8 square feet. She thinks she will have to buy another bottle of paint to paint the front of the cardboard triangle.

Use words, numbers, or symbols to prove that Joan is correct.							

If Joan also wants to paint the back of the cardboard triangle, what is the total area, in square feet, that she will have left to paint AFTER using one bottle of paint?

Show All Work

Answer _____square feet

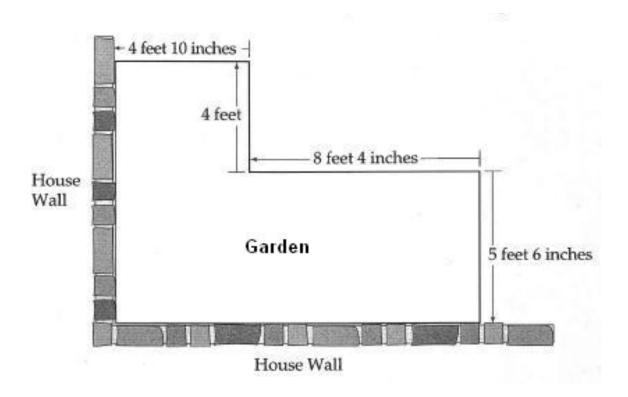
How many bottles of paint will she need to paint the entire front AND back of the cardboard triangle?

Show All Work

Answer _____bottles of paint

10. Grade 5 Multiple Choice Item (Problem Solving)

Daniel is building a garden in his yard. The measurements of the garden are shown in the diagram below.



What is the total PERIMETER, in feet and inches, of the garden?

- A. 22 feet 4 inches
- B. 22 feet 8 inches
- C. 44 feet 8 inches
- D. 45 feet 4 inches

Scoring Guide

- 1. B. 71
- 2. C. 900

3. Grade 3 Constructed Response Item (Computation/Problem Solving)

80 stickers

Sample Process:

Nick: 7 + 7 + 7 + 7 + 7 = 35

Mary: 35 + 10 = 45Total: 35 + 45 = 80

4. Grade 4 Extended Response Item (Measurement/Problem Solving)

• 59 square yards

AND

• Elaine is not correct because mopping Floor B twice is less area than Floors A and C combined.

Sample Process:

Floor $A = 2 \times 8 = 16$ square yards

Floor $B = 3 \times 5 = 15$ square yards

Floor $C = 4 \times 7 = 28$ square yards

16 + 15 + 28 = 59 square yards

Floor B twice is $15 \times 2 = 30$ square yards

Floors A and C together is 16 + 28 = 44 square yards

5. Grade 4 Extended Response Item (Measurement/Problem Solving)

3 cans

AND

• Dean will need 1 more can of paint to cover both walls.

Sample Process:

 $16 \times 9 = 144$ square feet 50 + 50 + 50 = 150

3 cans for 144 square feet

Second wall is $25 \times 5 = 125$ square feet 125 + 144 = 269 square feet for both walls

50 + 50 + 50 + 50 + 50 = 250 (5 cans)

1 more can: 250 + 50 = 300

6. Grade 4 Constructed Response Item (Number Sense/Problem Solving)

• 2.7 or 2.70

AND

• $2\frac{7}{10}$

Sample Process:

$$1 \frac{3}{4} = 1.75$$

$$7/10 = 0.7$$

1.75 + 0.7 + 0.25 = 2.70

- 7. C. 28 meters
- 8. D. 16 cubic feet

9. Grade 5 Extended Response Item (Measurement/Problem Solving)

• The area of the triangle is $\frac{1}{2}$ x 4 x 5 = 10 square feet. Since she only has enough paint to cover 8 square feet, she will need another bottle of paint.

AND

• 12 square feet

AND

• 3 bottles of paint

Sample Process:

Area of front of triangle: $4 \times 5 = 20$

 $20 \div 2 = 10$ square feet

10 + 10 = 20 square feet for the front and back

20 - 8 = 12 square feet left

8 + 8 = 16

16 + 8 = 24 so 3 bottles needed

10. D. 45 feet 4 inches